

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Greenberger et al. Art Unit : Unknown
 Serial No. : To Be Determined Examiner : Unknown
 Filed : Herwith
 Title : METHODS OF PREPARING BONE MARROW STROMAL CELLS FOR USE
 IN GENE THERAPY



Commissioner for Patents
 Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are not enclosed.

Under 35 USC §120, this application relies on the earlier filing date of application Serial Number 09/107,051, filed on June 30, 1998 which is a continuation of U.S. Serial Number 08/581,053, filed December 23, 1997. The references listed on the attached PTO Forms 1449 and PTO Forms 892 were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: August 4, 2000

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I hereby certify under 37 CFR §1.10 that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

August 4, 2000
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Matthew Morrissey
 Signature

Matthew Morrissey
 Typed or Printed Name of Person Signing Certificate

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
07787/004001SERIAL NO.
08/581,053INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Joel S. Greenberger et al.FILING DATE
December 29, 1995GROUP
1816

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
AB	EP 0 381 490 A2	08.08.90	Europe			
AC	PCT/US95/16991	29.12.95	PCT Search Report			

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AD	Anklesaria et al., "Engraftment of clonal bone ... hematopoietic recovery from total body irradiation", <u>Proc. Natl. Acad. Sci., USA</u> , 84:7681-7685 (November 1987).
AE	Anklesaria et al., "Expression of a Selectable ... Bone Marrow Cultures, <u>Experimental Hematology</u> , 15:195-202, (1987).
AF	Ding et al., "The Stromal Cell as a Vehicle for Ex Vivo Gene Transfer", <u>Blood</u> , 86:10 Suppl. 1, page 409A, Abstract 1625, (1995).
AG	Drize et al., "Gene Therapy Model ... Hematopoietic Microenvironment", <u>Leukemia</u> , 6(Supp.3):174S-175S, (1992).
AH	Foley et al., "Effective Cytokine ... Adenoviral Vectors", <u>Journal Cellular Biochemistry</u> , 21A:406, Abstract C6-415, (1995).
AI	Huss et al., "Homing and Immunogenicity ... MHC Class II Genes, <u>Cell Transplantation</u> , 4:483-491 (1995).
AJ	Keating, "Bone marrow stromal cell transplantation", <u>Bone Marrow Transplantation</u> , 15(Supp.1):S9-S14, (1995).
AK	Lazarus et al., "Ex vivo expansion and implications for therapeutic use", <u>Bone Marrow Transplantation</u> , 16:557-564, (1995).
AL	Li et al., "Retroviral-mediated gene ... in vivo survival in SCID mice", <u>Eur. J. Haematol</u> , 55:302-306 (1995).
AM	Luskey et al. "Gene Transfer into ... and Bone Marrow Stromal Cells, <u>Ann. N.Y. Acad. Sci.</u> , 612:398-406, (1990).
AN	Roux et al., "Retrovirus-mediated gene ... mouse bone marrow stromal cells", <u>Oncogene</u> , 6:2155-2160, (1991).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	7	2	1	0	9	6	01/26/88	Naughton et al.	128	1 R	
	AB												
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	PCT/US95/16991	12/09/97	PCT Written Opinion				
	AM							
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	1	1	7	8	8	1	10/03/78	Williams et al.			
	AB	5	3	9	9	4	9	3	03/21/95	Emerson et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AC	WO	91/18620	12/12/91	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AD	Boswell et al., 1983, Exp. Hematol. 11:315-323
AE	Brunner et al., 1993, Blood 81:631-638
AF	Gilbert et al., 1994, Eur. J. Haematol. 53:93-99
AG	Kimura et al., 1988, Br. J. Haematol 69:9-12
AH	Motta et al., 1993, Bone Marrow Trans. 12:177
AI	Nicol et al., 1995, Blood 86(Supp. 1):120a, Abstract No. 469
AJ	Sorger et al., 1995, In Vitro Cell. Dev. Biol. - Animal 31:671-683
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SUBSTITUTE FORM PTO-1449
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(37 CFR 1.98(b))

APPLICANT
Joel S. Greenberger et al.FILING DATE
December 29, 1995GROUP
1819

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	5	9	1	6	2	5		01/07/97	Gerson et al.			
	AB													
	AC													
	AD													

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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	AE							
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	AI							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

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EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-892
(REV. 2-92)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

SERIAL NO.

581,053

GROUP/ART UNIT

1819

ATTACHMENT
TO
PAPER
NUMBER

6

NOTICE OF REFERENCES CITED

APPLICANT(S)

Greenberg et al

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

R	Lozier et al. (1994) Human Gene Therapy 5: 313-322
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Notice of References Cited			Application No. 09/107,051		Applicant(s) Greenberger et al.	
			Examiner Wilson, Michael C.		Group Art Unit 1633	
Page 1 of 1						

U.S. PATENT DOCUMENTS						
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NON-PATENT DOCUMENTS	
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)
U	Lozier et al., Human Gene Therapy, Vol. 5, pages 313-322.
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X	